RACK-250 CHASSIS
USER'S MANUAL

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Chapter 1 Product Information

1.1 General Information

RACK-250 IPC chassis is a rugged PC/AT compatible computer designed for the factory floor and other Industrial harsh environment. RACK-250 is designed for POS-566 POS Control Board and standard equipped with ACE-890 series power supply.

1.2 Product Specifications

General specification

- Construction : Heavy-duty steel
- Disk Driver : One 3.5” FDD and One 3.5” HDD drive space
- Cooling Fan : Dual Ball bearing fans
- Indicator : Two LEDs to monitor the status of HDD and Power Supply
- Dimension : 484 x 412 x 44 (W x D x H)

Power Supply

Standard equipped power supply for the RACK-250 is : ACE-890A. / 90W

Optional: ACE-890P 70V -132VDC input power supply.
ACE-890T 36V -72VDC input power supply.
ACE-890C 18V -36VDC input power supply.
ACE-890V 9V -16VDC input power supply.

Working Environment

- Operating Temperature	:	0~50°C
- Relative Humidity	:	5~95% Relative humidity
- Vibration	:	5-17Hz, 0.1” doubl e amplitude displacement
		17-640Hz, 1.5G acceleration peak to peak
- Shock	:	10G acceleration peak to peak
- Safety approval	:	meet CE, FCC

Cooling Fan

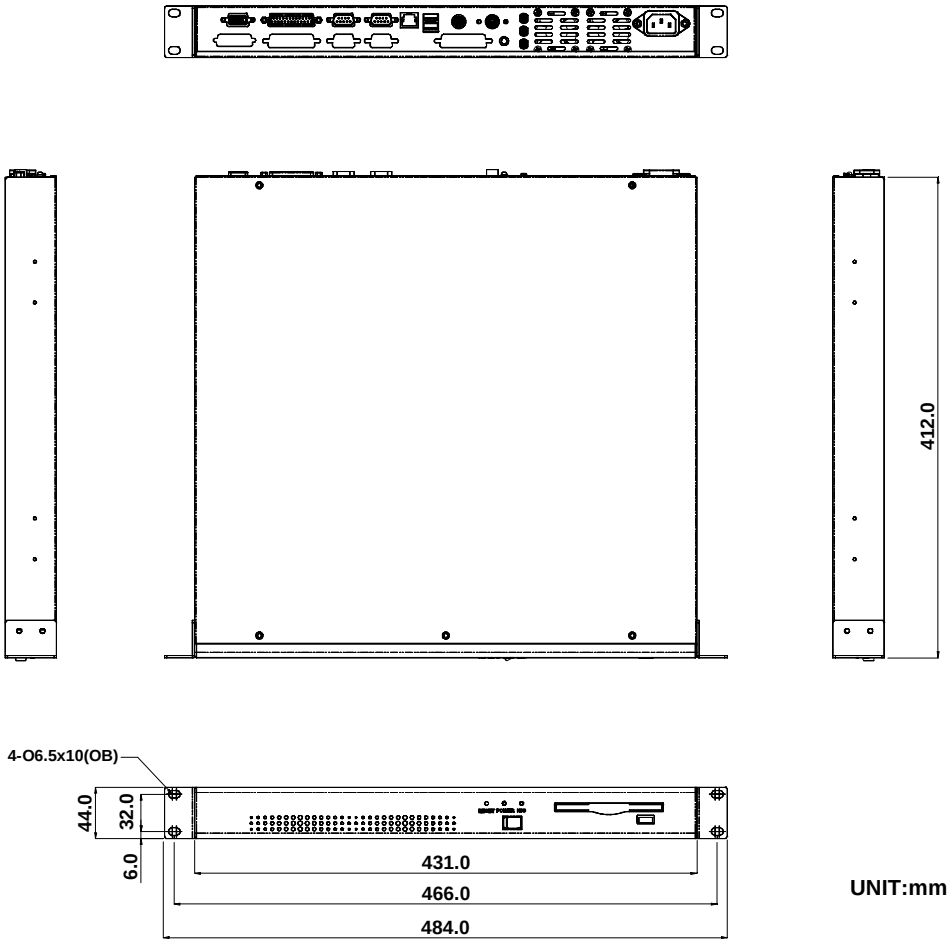
Dual rear ball bearing cooling fans for optimum system cooling.

Drive Capacity

One 3.5” FDD and one 3.5” HDD drive space

1.3 Dimensions

484mm x 44mm x 412mm (W x H x D)

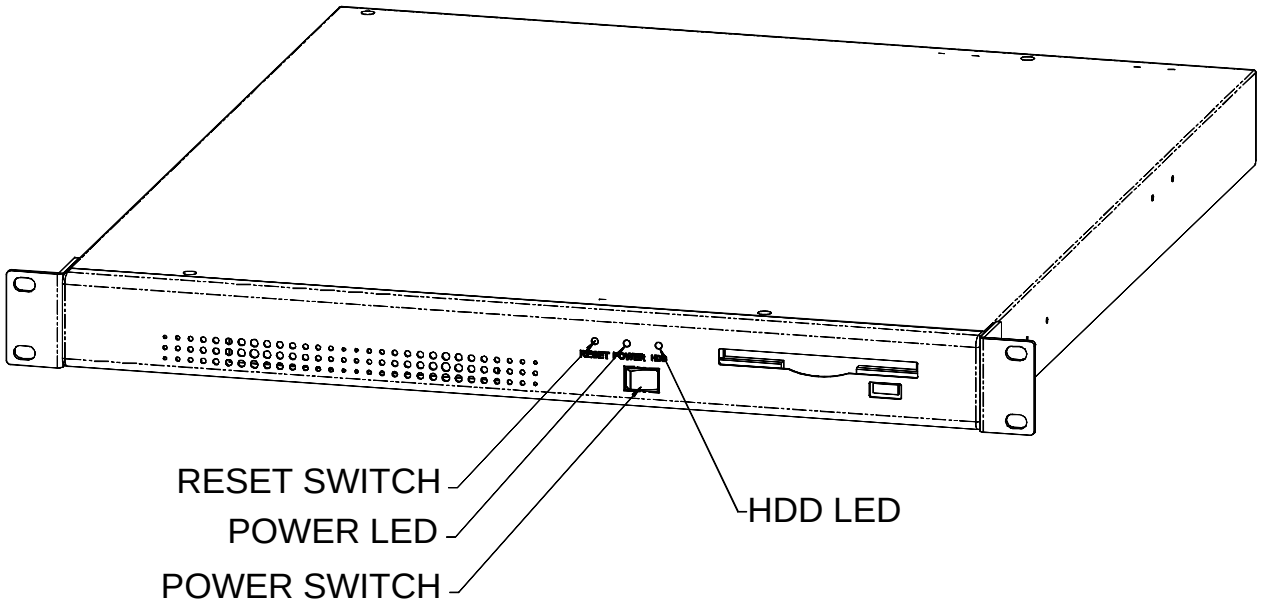


Chapter 2 Installation Procedure

The following procedure is provided to assist you in installing the system, please follow the steps below:

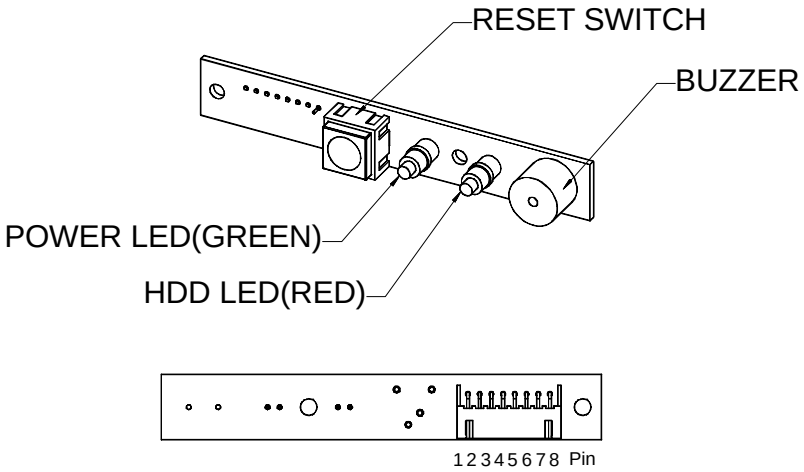
2.1 Front Panel of RACK-250

The front panel is equipped with Power Switch, Reset Switch, Power LED and HDD LED as the following diagram shown.



2.2 LP-01 Control Panel of RACK-250

Rack-250 is equipped with LP-01 control board. Please refer to the following figure as you set up your system.



NOTE: 1,2 PIN-BUZZER
3,4 PIN-POWER LED(GREEN)
5,6 PIN-HDD LED(RED)
7,8 PIN-RESET SWITCH

LP-01 Panel

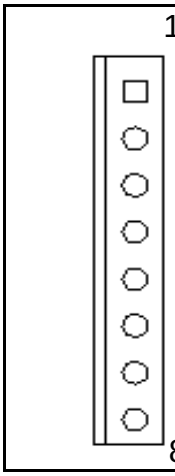
BZ1: BUZZER

D1:POWER LED

D2: System HDD LED

SW1: RST system reset button

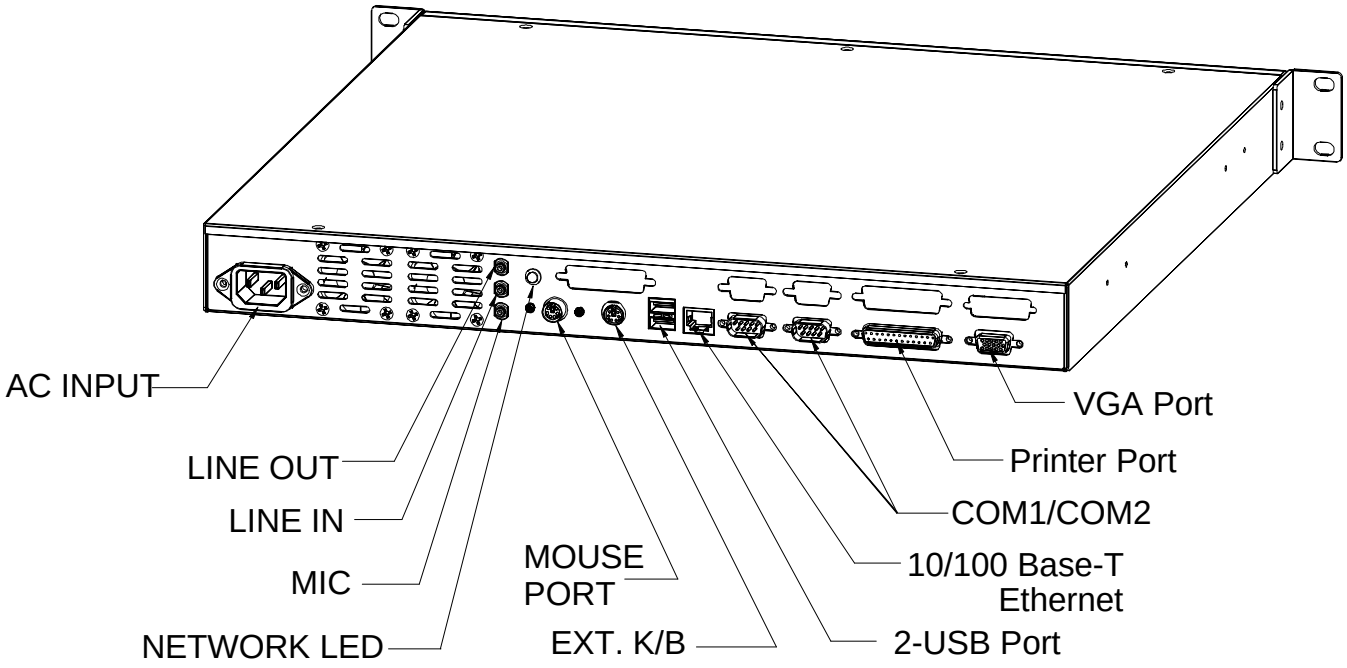
CN1:



Pin #	FUNCTION
1	SPEAKER (+)
2	SPEAKER (-)
3	POWER LED (-)
4	POWER LED (+)
5	HDD LED(-)
6	HDD LED(-)
7	RESET (1)
8	RESET (2)

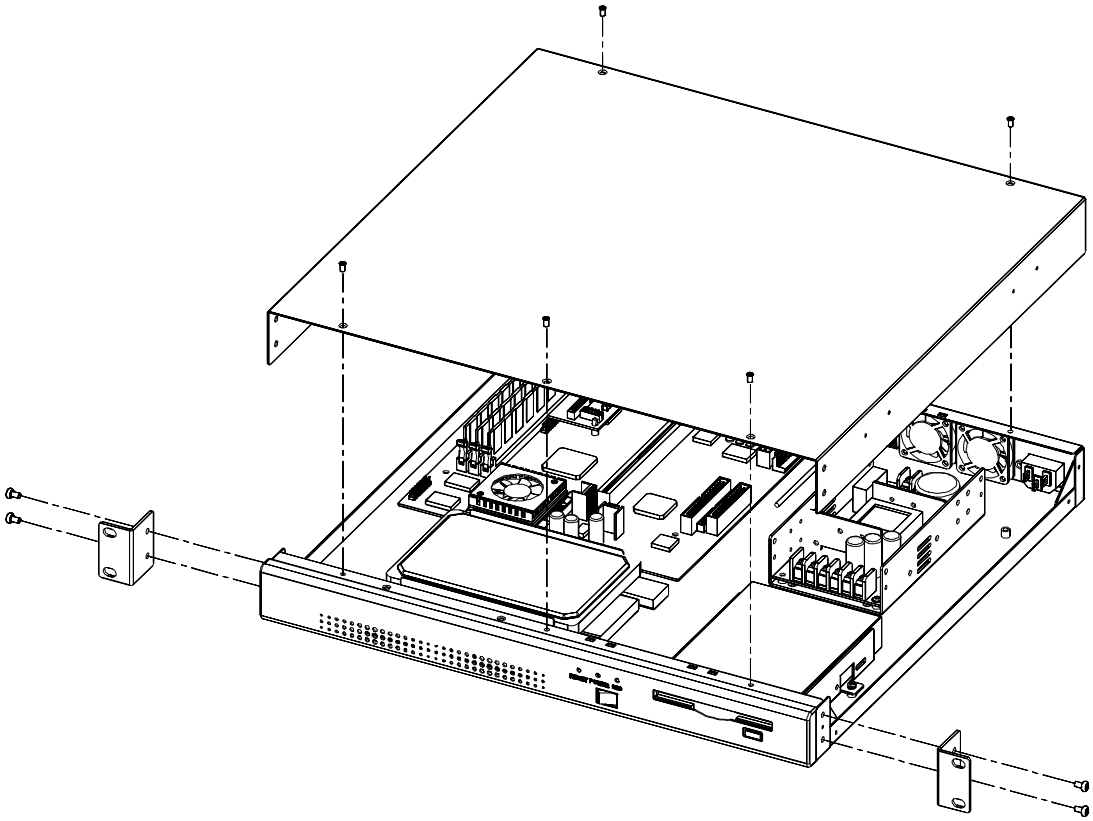
2.3 Rear Panel of RACK-250

Please refer to the following diagram which illustrates the equipment of the rear panel .



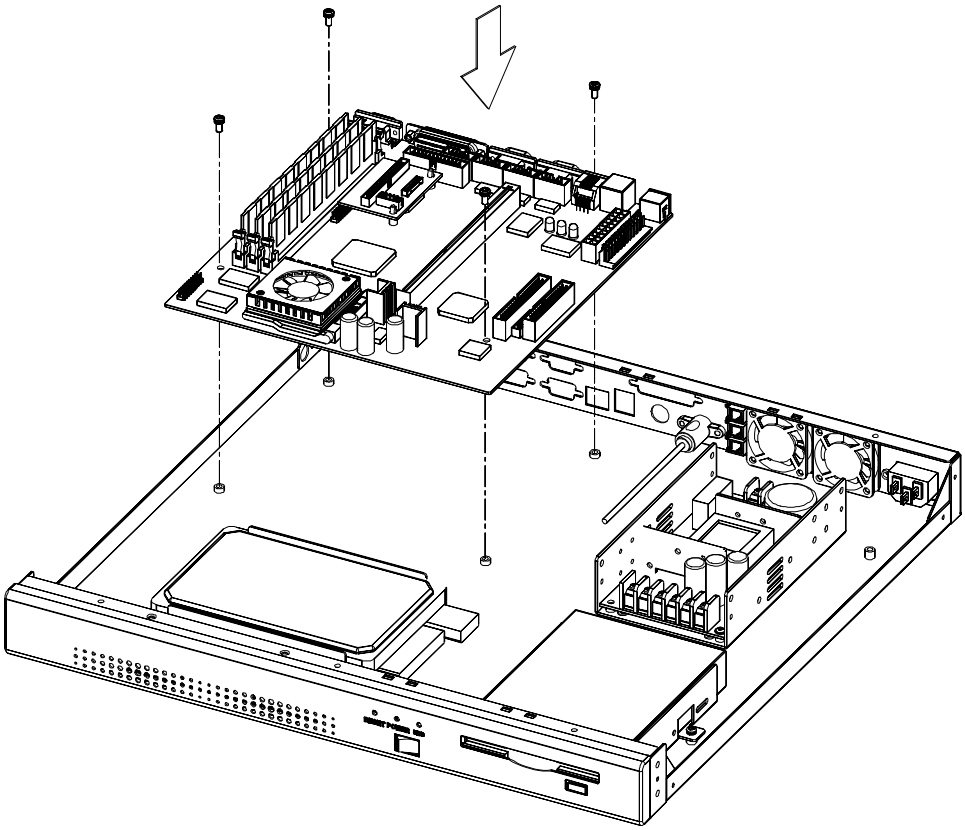
2.4 Removing the chassis cover

The cover is mounted by some screws on the top of the chassis. Hence, you can remove the screws and open the cover of chassis directly. Figure below shows how to remove the chassis cover.



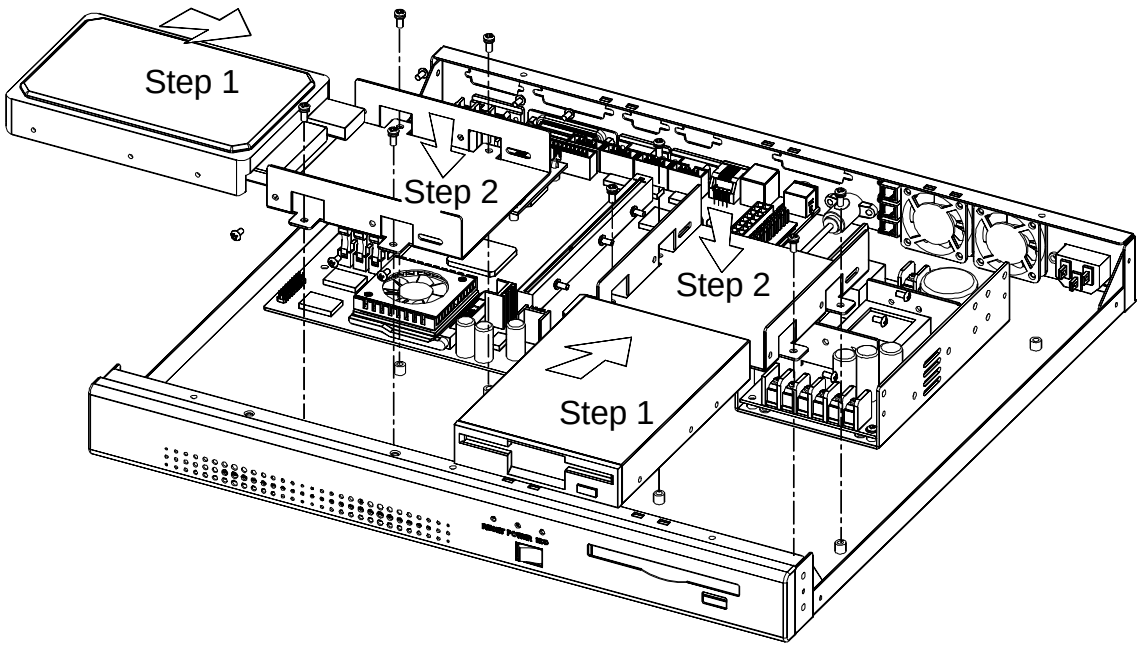
2.5 Multimedia POS Control Board Installation

Figure below illustrates how to install the POS Control Board on the RACK-250 .



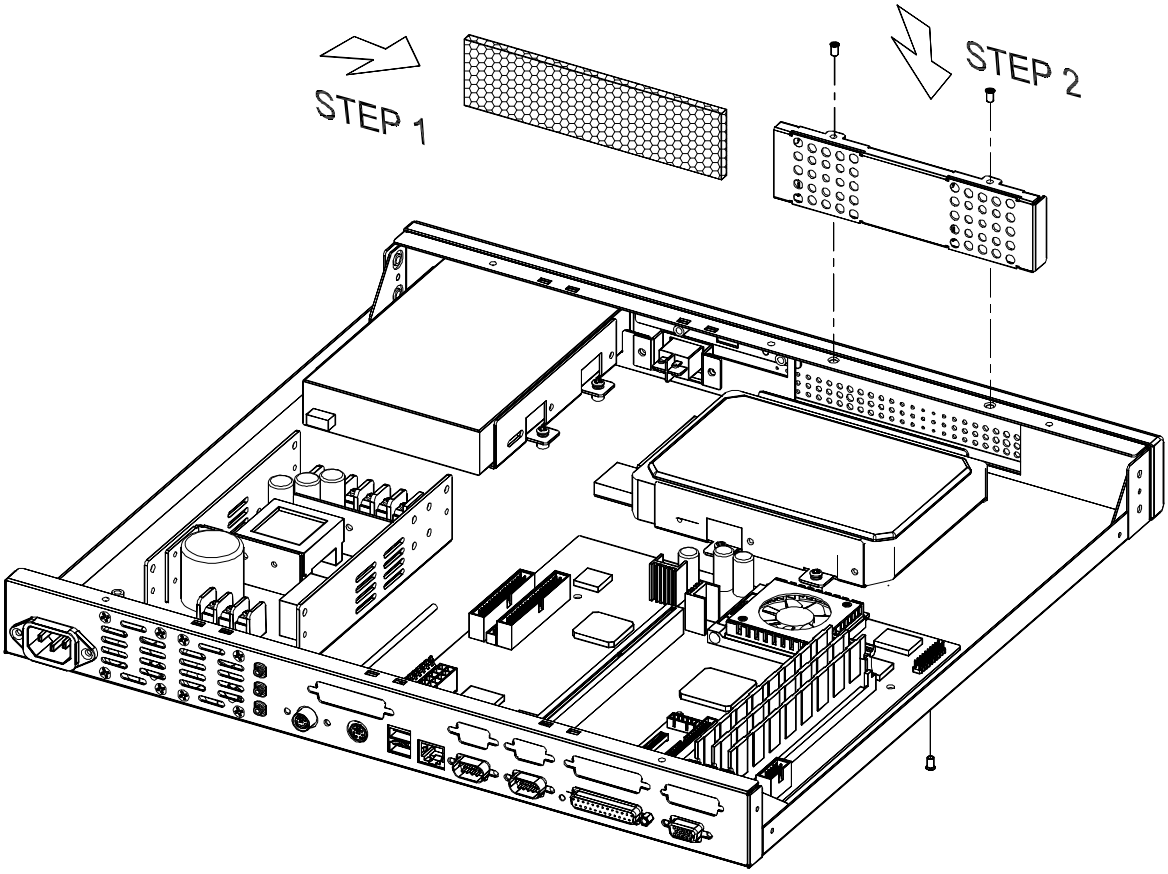
2.6 Disk Drives Installation

1. Open the upper disk drive cover.
2. Fix the HDD and FDD into bracket and then install them into the chassis.
3. Connect the necessary cables.



2.7 Replacing the Filter

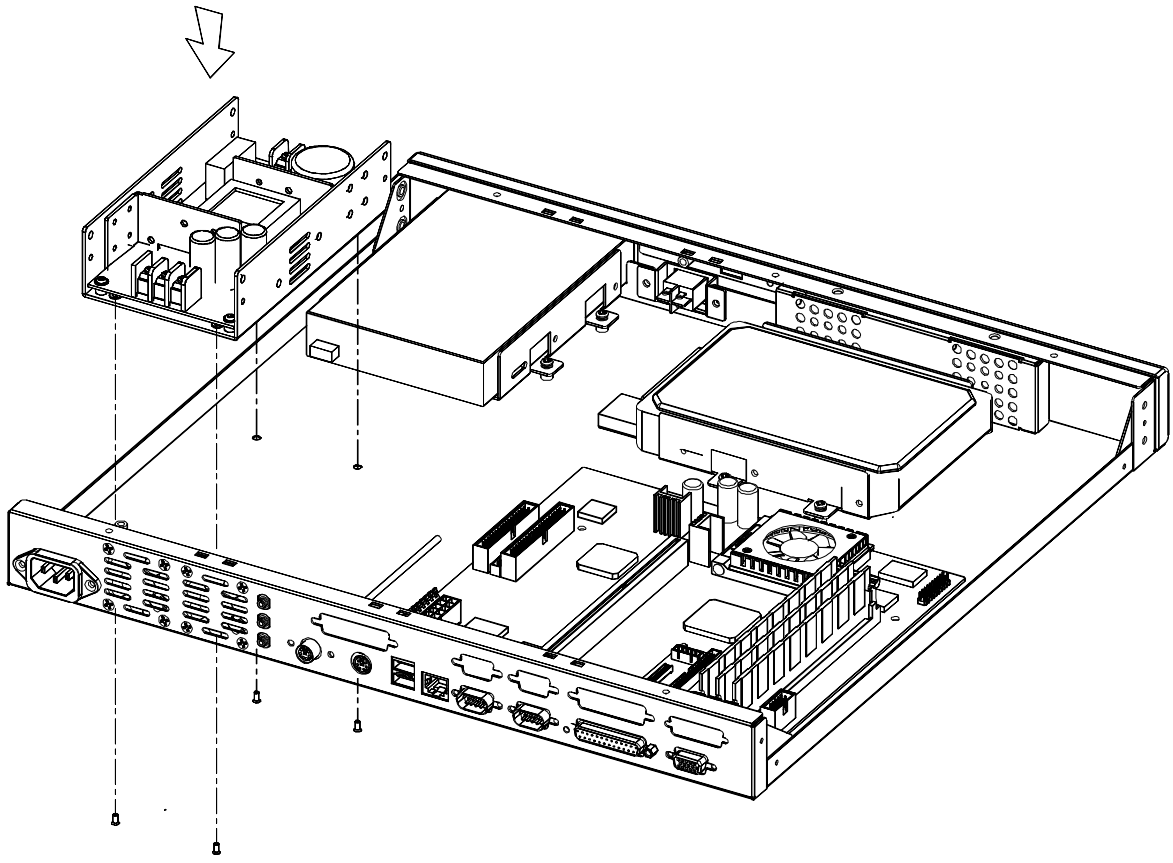
The filter of the RACK-250 is located at the front end of the chassis. Just replace it with the new one if it's already worn out. The filter should be removed and cleaned at least once a month to achieve optimum performance.



2.8 Power Supply Installation

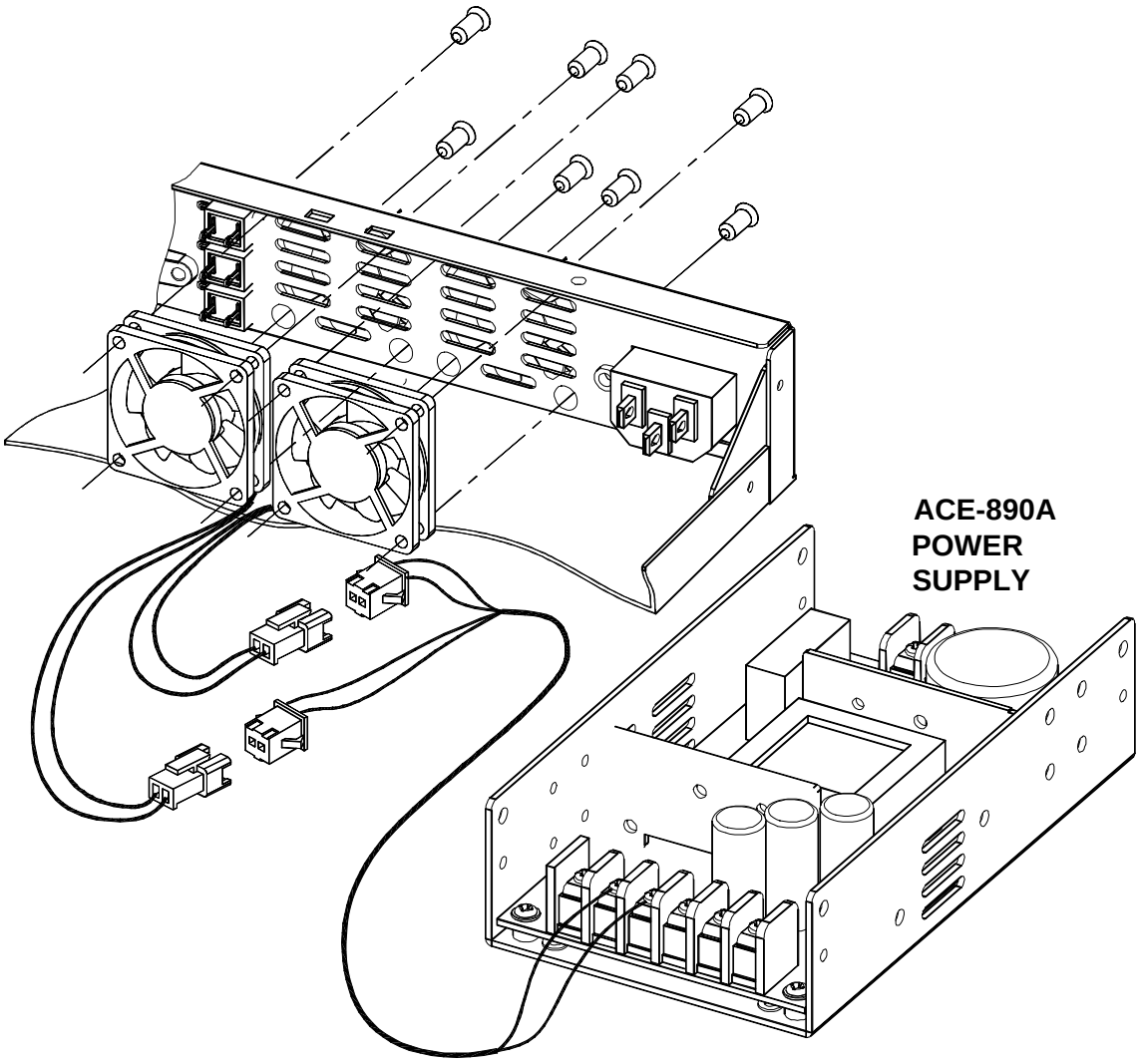
Please refer to the figure below to install the Power Supply.

Model	Input Voltage	Rated Load			Max Output		
		+5V	+12V	-12V	+5V	+12V	-12V
ACE-890A	85V to 264VAC	10A	2.5A	0.5A	12A	4A	1A



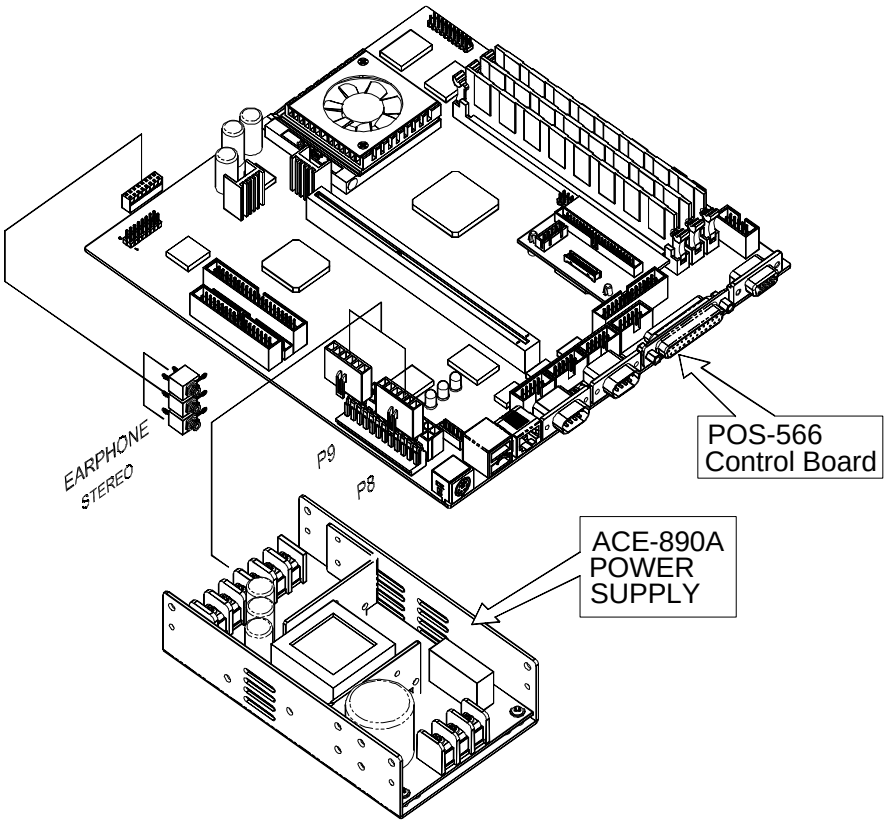
2.9 Fan Installation

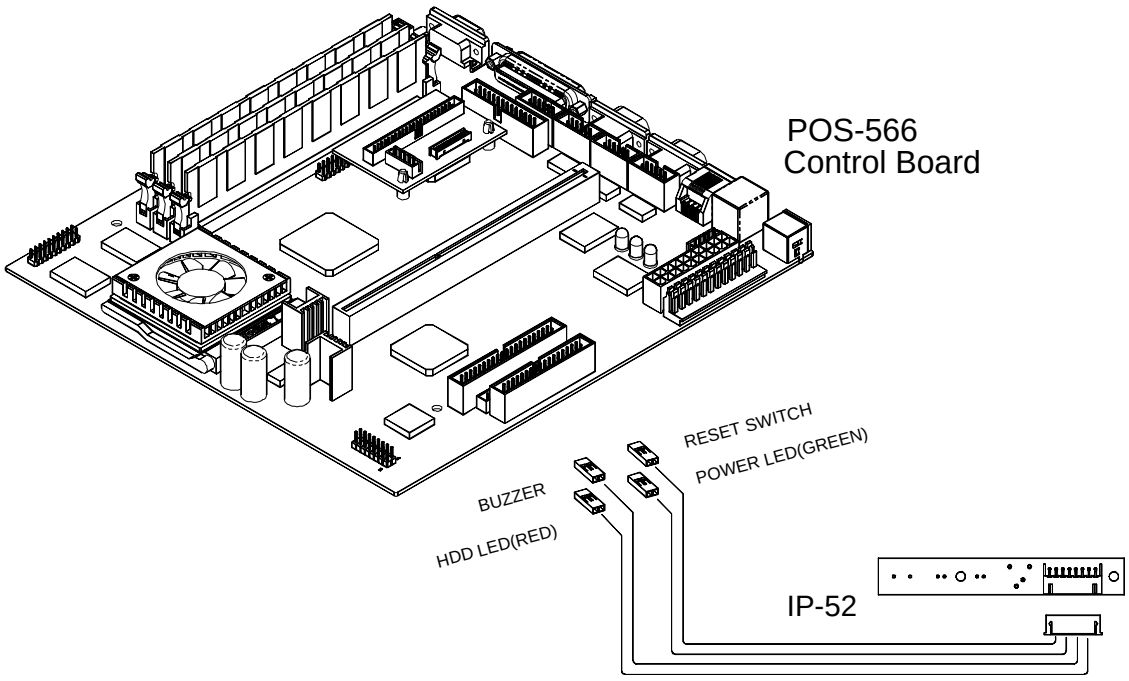
The following diagram is provided for your reference as you install the Fan and connect to the Power Supply.



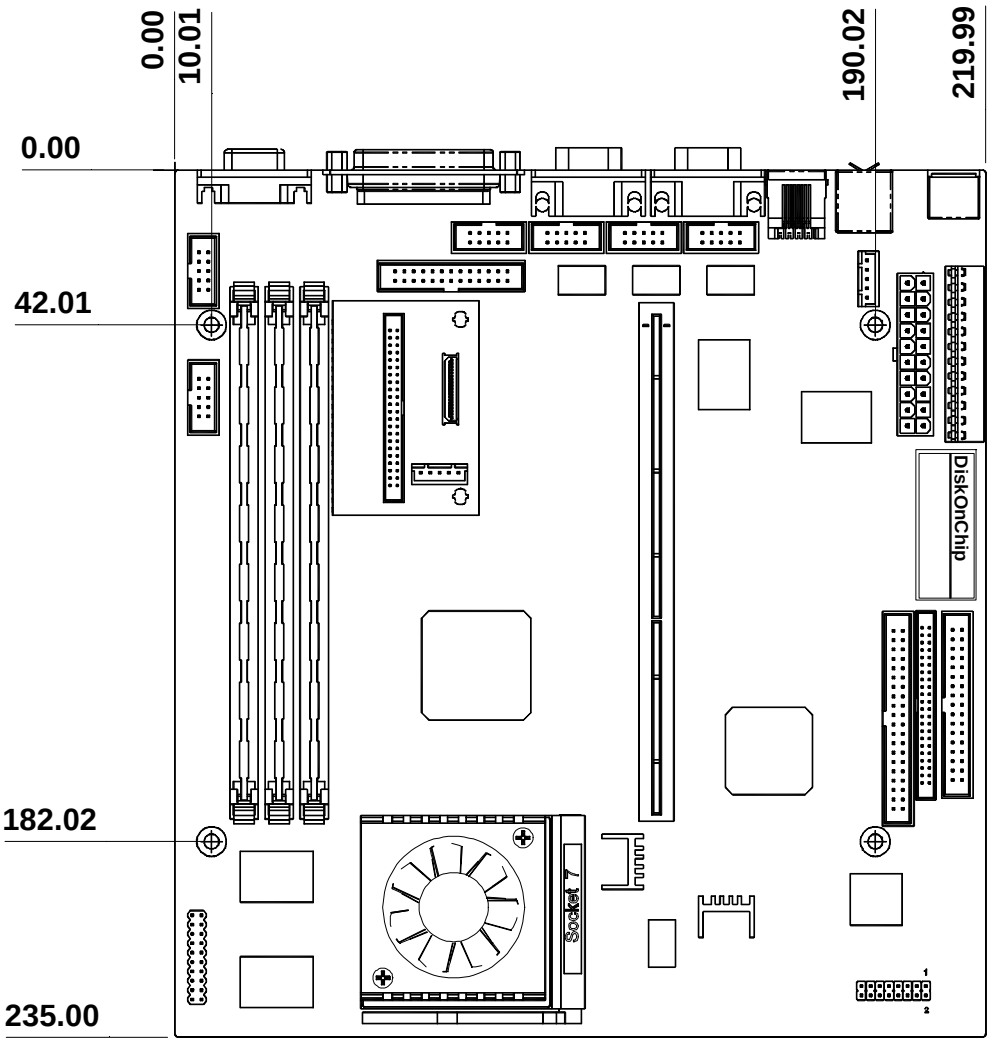
2.10 Power and Control Board Cable Connecting

Please refer to the following diagrams to connect the cables to the Control Board.





APPENDIX A PASSIVE CONTROL BOARD



UNIT:mm

APPENDIX B EXPLODED DIAGRAM